Mexico

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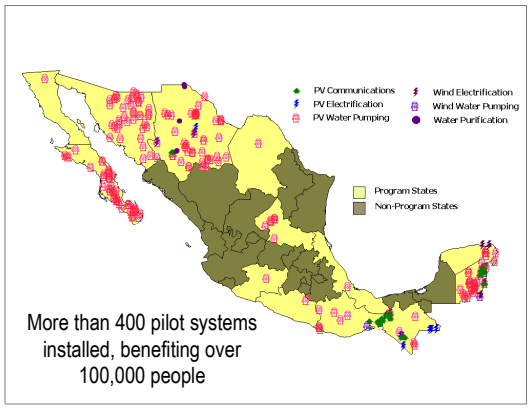

Mexico Renewable Energy Program (MREP)

http://www.re.sandia.gov

- **Support:** The United States Department of Energy (USDOE) and the United States Agency for International Development (USAID).
- **Objective**: Promote the appropriate and sustainable use of renewable energy (RE) technologies in Mexico, in order to increase quality and efficiency, and lower the costs of these technologies; increase the use of clean energy sources to help combat global climate change; and increase the economic, social, and health standards in rural, off-grid communities by advocating productive-use applications of the energy.

Renewable Energy for Agriculture Program
Large-Scale RE System Replication

- A Fideicomiso de Riesgo Compartido (FIRCO) program.
- Technical assistance from MREP
- Funding support from the World Bank and the Global Environmental Facility for expanding RE productive applications in the agricultural sector.
- 1,200 PV and 55 wind water pumping system installations.
- Includes new applications, promotion/dissemination, trainings, demonstrations, market development, vendor financing, and technical assistance—all relating to the use of RE technologies.
- Four-year (2000–2004), US $31.5 million program.

Sustainable ranching using photovoltaics - El Sagitario, BCS

Photovoltaic lighting systems in the municipality of Moris, Chihuahua

Financing Program—PV Systems
Chihuahua, Mexico

- More than 7,000 rural communities and 250,000 persons are without access to the grid throughout Chihuahua.
- Joint pilot financing program between MREP and the Chihuahua Renewable Energy Working Group (GTER), with FIDEAPECH as the lending organization.
- Financing program for small PV (50W) lighting and water pumping systems.
- 145 PV lighting systems financed to date.
- Nine PV water pumping systems financed.
- $100 thousand revolving fund initiated by MREP and GTER.

Joint APS/CFE Hybrid Power Project
San Juanico, Baja California Sur (BCS), Mexico

- Joint implementation project between Arizona Public Service (APS) and Comisión Federal de Electricidad (CFE).
- Funding from USDOE, USAID, Niagara Mohawk, and local and state governments of Comondú, BCS.
- Rural fishing and "eco-tourism" village of approximately 100 homes and 400 persons.
- 50 kilometers from the utility grid.
- Hybrid system consists of ten 10-kW Bergey Excel wind turbines, a 17-kW PV array, a 432-kWh battery bank, a 70-kW inverter, and an 80-kW diesel generator.
- 70-kW design capacity, US $1 million investment.

San Juanico Power Plant installed in April 1999